

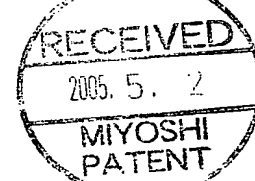
From the INTERNATIONAL BUREAU

**PCT**

**NOTIFICATION OF TRANSMITTAL  
OF COPIES OF TRANSLATION  
OF THE INTERNATIONAL PRELIMINARY  
EXAMINATION REPORT**  
(PCT Rule 72.2)

To:

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JAPON



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|--|--|
| Date of mailing (day/month/year)<br>21 April 2005 (21.04.2005) |  |
| Applicant's or agent's file reference<br>JHTK-51-PCT           | <b>IMPORTANT NOTIFICATION</b>  |
| International application No.<br>PCT/JP2003/006860             | International filing date (day/month/year)<br>30 May 2003 (30.05.2003) |
| Applicant<br>HITACHI CHEMICAL CO., LTD. et al                  |  |

**1. Transmittal of the translation to the applicant.**

The International Bureau transmits herewith a copy of the English translation made by the International Bureau of the international preliminary examination report established by the International Preliminary Examining Authority.

**2. Transmittal of the copy of the translation to the elected Offices.**

The International Bureau notifies the applicant that copies of that translation have been transmitted to the following elected Offices requiring such translation:

AZ, CA, CH, CN, CO, EP, GH, KG, KP, KR, MK, MZ, RO, RU, TM

The following elected Offices, having waived the requirement for such a transmittal at this time, will receive copies of that translation from the International Bureau only upon their request:

AE, AG, AL, AM, AP, AT, AU, BA, BB, BG, BR, BY, BZ, CR, CU, CZ, DE, DK, DM, DZ, EA, EC, EE, ES, FI, GB, GD, GE, GM, HR, HU, ID, IL, IN, IS, KE, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MN, MW, MX, NI, NO, NZ, OA, OM, PH, PL, PT, SC, SD, SE, SG, SK, SL, TJ, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

**3. Reminder regarding translation into (one of) the official language(s) of the elected Office(s).**

The applicant is reminded that, where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary examination report.

**It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned (Rule 74.1). See Volume II of the PCT Applicant's Guide for further details.**

The International Bureau of WIPO  
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1211 Geneva 20, Switzerland

Authorized officer

Masashi Honda

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**Translation**

**PATENT COOPERATION TREATY**

**PCT**

**INTERNATIONAL PRELIMINARY EXAMINATION REPORT**

(PCT Article 36 and Rule 70)

PCT/JP2003/006860



|   |   |  |
|---|---|--|
| Applicant's or agent's file reference<br><b>JHTK-51-PCT</b>   | <b>FOR FURTHER ACTION</b> See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416) |  |
| International application No.<br><b>PCT/JP2003/006860</b>   | International filing date (day/month/year)<br><b>30 May 2003 (30.05.2003)</b>   | Priority date (day/month/year)<br><b>18 July 2002 (18.07.2002)</b> |
| International Patent Classification (IPC) or national classification and IPC<br><b>H05K 1/16, 3/46, H01F 17/00, H01G 4/40, 4/18</b> |   |  |
| Applicant<br><b>HITACHI CHEMICAL CO., LTD.</b>  |   |  |

- This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.
- This REPORT consists of a total of 5 sheets, including this cover sheet.  
  
☒ This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).  
  
 These annexes consist of a total of 8 sheets.

3. This report contains indications relating to the following items:

- I ☒ Basis of the report
- II ☐ Priority
- III ☐ Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- IV ☐ Lack of unity of invention
- V ☒ Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- VI ☐ Certain documents cited
- VII ☐ Certain defects in the international application
- VIII ☐ Certain observations on the international application

|  |  |
|--|--|
| Date of submission of the demand<br><b>11 December 2003 (11.12.2003)</b> | Date of completion of this report<br><b>19 May 2004 (19.05.2004)</b> |
| Name and mailing address of the IPEA/JP                                  | Authorized officer   |
| Facsimile No.  | Telephone No.  |

# INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International Application No.

PCT/JP2003/006860

## I. Basis of the report

### 1. With regard to the elements of the international application:\*

- ☐ the international application as originally filed
- ☒ the description: \_\_\_\_\_, as originally filed  
 pages \_\_\_\_\_ 1-33  
 pages \_\_\_\_\_, filed with the demand  
 pages \_\_\_\_\_, filed with the letter of \_\_\_\_\_
- ☒ the claims: \_\_\_\_\_, as originally filed  
 pages \_\_\_\_\_ 4-5, 13-14, 19-20, 24-30, 32  
 pages \_\_\_\_\_ 1, 3, 6, 8-12, 15-18, 21-23, 31, as amended (together with any statement under Article 19  
 pages \_\_\_\_\_, filed with the demand  
 pages \_\_\_\_\_, filed with the letter of \_\_\_\_\_
- ☒ the drawings: \_\_\_\_\_, as originally filed  
 pages \_\_\_\_\_ 1-7  
 pages \_\_\_\_\_, filed with the demand  
 pages \_\_\_\_\_, filed with the letter of \_\_\_\_\_
- ☐ the sequence listing part of the description: \_\_\_\_\_, as originally filed  
 pages \_\_\_\_\_, filed with the demand  
 pages \_\_\_\_\_, filed with the letter of \_\_\_\_\_

### 2. With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item. These elements were available or furnished to this Authority in the following language \_\_\_\_\_ which is:

- ☐ the language of a translation furnished for the purposes of international search (under Rule 23.1(b)).
- ☐ the language of publication of the international application (under Rule 48.3(b)).
- ☐ the language of the translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/or 55.3).

### 3. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:

- ☐ contained in the international application in written form.
- ☐ filed together with the international application in computer readable form.
- ☐ furnished subsequently to this Authority in written form.
- ☐ furnished subsequently to this Authority in computer readable form.
- ☐ The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
- ☐ The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

### 4. ☒ The amendments have resulted in the cancellation of:

- ☐ the description, pages \_\_\_\_\_
- ☒ the claims, Nos. \_\_\_\_\_ 2, 7
- ☐ the drawings, sheets/fig \_\_\_\_\_

### 5. ☐ This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).\*\*

\* Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rule 70.16 and 70.17).

\*\* Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.

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## V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

### 1. Statement

|                               |        |                         |     |
|-------------------------------|--------|-------------------------|-----|
| Novelty (N)                   | Claims | 1, 3, 5, 6, 8-23, 26-32 | YES |
|                               | Claims | 4, 24-25                | NO  |
| Inventive step (IS)           | Claims | 1, 3                    | YES |
|                               | Claims | 4-6, 8-32               | NO  |
| Industrial applicability (IA) | Claims | 1, 3-6, 8-32            | YES |
|                               | Claims |                         | NO  |

### 2. Citations and explanations

- Document 1: JP 9-148746 A (Kyocera Corporation), 6 June 1997
- Document 2: JP 10-013036 A (Kyocera Corporation), 16 January 1998
- Document 3: JP 2001-68858 A (Shinko Electric Industries, Co., Ltd.), 16 March 2001
- Document 4: JP 1-189999 A (Matsushita Electric Works, Ltd.), 31 July 1989
- Document 5: JP 7-183665 A (Murata Manufacturing Company, Ltd.), 21 July 1995
- Document 6: JP 6-085462 A (Nihon Cement Co., Ltd.), 25 March 1994

The invention set forth in claims 1 and 3 involves an inventive step in relation to documents 1 to 6 cited in the international search report. Documents 1 to 6 do not disclose a multilayer wiring board, having an asymmetrical layer structure with a capacitor in an arbitrarily defined core layer, the warpage of which is described by a curvature of  $4.0 \times 10^{-4}$  mm or less at room temperature, and said feature would not be obvious to a person skilled in the art.

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The inventions set forth in claim 4, 24 and 25 lack novelty in the light of document 3 cited in the international search report.

The invention set forth in claim 5 does not involve an inventive step in the light of document 3 cited in the international search report. It would be easy for a person skilled in the art to constitute an invention in such a manner that a conductor pattern comes into contact with three different types of insulating materials, in the light of document 3.

The invention set forth in claims 6, 8 and 9 does not involve an inventive step in the light of documents 1, 2 and 5 cited in the international search report. It would be easy for a person skilled in the art to apply the means of disposing one electrode further inside than an opposing electrode, as described in document 5, to the invention set forth in document 1 or 2.

The invention set forth in claims 10 and 11 does not involve an inventive step in the light of documents 1, 2 and 5 cited in the international search report. Document 2 indicates that the part of the conductor layer which is not required is subjected to etching.

The invention set forth in claims 12 to 14 does not involve an inventive step in the light of documents 3 and 4 cited in the international search report. It would be easy for a person skilled in the art to apply the means of forming an inductor on a multilayer wiring board set forth in document 4, to the invention set forth in document 3.

The invention set forth in claims 15 to 23 does not involve an inventive step in the light of documents 1, 2,

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3, 4 and 5 cited in the international search report.

The invention set forth in claims 26 to 29 does not involve an inventive step in the light of documents 1, 2, 3 and 6 cited in the international search report. It would be easy for a person skilled in the art to apply the means of carrying out exposure a plurality of times described in document 6 to the invention set forth in document 1, 2 or 3.

The invention set forth in claim 30 does not involve an inventive step in the light of documents 1 to 3, 4 and 6 cited in the international search report.

The invention set forth in claims 31 to 32 does not involve an inventive step in the light of documents 1 to 6 cited in the international search report.